

UNREPORTED PLANTS FROM LONG ISLAND, N. Y.

II. CRYPTOGAMS EXCLUSIVE OF PTERIDOPHYTA*

N. M. GRIER

An earlier paper, (*Torrey* 24, No. 5) dealt with the vascular plants which appear to have been unreported from Long Island. The present list is concerned with those native plant groups which have by no means received an equivalent amount of systematic study. In addition to papers by Jelliffe (1893-1904), Grout, (1902), Gurnham and Latham (1914-24), and the more occasional mention of these forms by authors cited in connection with the previous list, the species now given have been checked with the lists of Farlow (1882-1893), Britton (1884), Reichling (1905), Wood (1905-14), Howe (1914) and Evans (1923), for Long Island and adjacent regions. The nomenclature used is that of the authorities mentioned in connection with each group, although the background of the classification is essentially that of the recent edition of the Engler and Prantl "Syllabus der Pflanzenfamilien." The workers whose data besides those of the writer are presented in the following list are:

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* Contribution No. 7 from the Biological Laboratory, Cold Spring Harbor, N. Y.

SCHIZOPHYTA†

CHAMAESIPHONACEAE

Chamaesiphon sp. Epiphytic on *Cladophora* sp., C. S. H. D. S. J.

CHROOCOCCACEAE

Calothrix confervicola Ag. On *Cladophora* in tide pools, Lloyd's Point, L. I. N. M. G.

Calothrix crustacea (Schousb.) Born. & Thuret. On grasses and algae at Eatons Point, L. I.

Calothrix parasitica (Chau.) Thuret. Common on *Nemalion* sp., C. S. H. D. S. J.

Calothrix pulvinata Ag. Growing on tufts of *Spartina patens*. D. S. J.

Calothrix scopulorum (Web. & Mohr) Ag. On posts under old mill, C. S. H. D. S. J.

Chroococcus turgidus (Kuetz) Naeg. On *Spartina*, stubble, inner harbor, C. S. H. D. S. J. H. H. Y.

Dactylocopsis raphidioides Hansg. Common in Jarvis Pond, C. S. H. N. M. G.

NOSTOCACEAE

Anabaena torulosa (Carm.) Lagerh. Estuary north of cement bridge, C. S. H. N. M. G.

Anabaena variabilis Kuetz. West side, inner harbor, C. S. H. D. S. J.

Cylindrospermum majus Kuetz. Bottom of Jarvis Pond, C. S. H. N. M. G.

OSCILLATORIACEAE

Lyngbya confervoides Ag. On mud in outlet from Fishery Ponds, C. S. H. D. S. J.

Lyngbya semiplena (Ag.) J. Ag. Mud and tangles about *Spartina*. D. S. J. and H. H. Y.

Microcoleus tenerrimus Gomont. Algal mats on marsh. D. S. J. and H. H. Y.

Oscillatoria gracilima Vauch. Common. Jarvis Pond, C. S. H. N. M. G.

Oscillatoria formosa Bory. Floating in Fish Hatchery Pool, C. S. H. N. M. G.

Oscillatoria ornata Kuetz. Forming bright green mats in 1st lake, C. S. H. D. S. J.

Phormidium laminosum (Ag.) Gom. Jarvis Pond, C. S. H. N. M. G.

Oscillatoria animalis Ag. Forming mats, 1st lake. N. M. G.

RIVULARIACEAE

Rivularia nitida Ag. N. and E. shore, C. S. H. D. S. J.

† Schizophyceae revised following the terminology of "The Myxophyceae of N. America and Adjacent Regions" Minnesota Algae. Vol. I. Josephine Tilden. Report of Survey, Botanical Series VIII. V. of Minnesota, 1910.

MYXOMYCETES†

CERATOMYXACEAE

Ceratiomyxa poriodes (Alb. & Schw.) Schroeter. On stump near falls, 1st lake, C. S. H. N. M. G.

CLATHROPTYCHIACEAE

Dictydium cancellatum (Batsch) Macb. Abundant on dead wood, C. S. H. N. M. G.

DICTYOSTELIACEAE

Dictyostelium mucoroides Brefeld. On muskrat dung, C. S. H. D. S. J.

DIDYMIACEAE

Diderma testaceum (Schrad.) Rost On dead leaves near 1st lake, C. S. H. D. S. J.

LICEACEAE

Tubulina ferruginosa (Batsch) Macb. Abundant on dead wood, C. S. H. D. S. J.

PHYSARACEAE

Badhamia decipiens (Curt.) Berk. On dead oak leaves west of 2nd lake, C. S. H. N. M. G.

Leocarpus fragilis (Dicks.) Rost. Occasional on mosses and dead leaves in vicinity of school house, C. S. H. N. M. G.

Physarum compressum Alb. & Schw. On dead twigs, C. S. H. N. M. G.

PLASMIDIOPHORACEAE

Hemitrichia clavata (Pers.) Rost. Frequent on wood, C. S. H. D. S. J.

RETICULARIACEAE

Tubifera ferruginosa (Batsch) Macb. On old stumps, C. S. H. M. A. B.

STEMONITACEAE

Comatricha typhoides (Bull.) Rost. On old logs, vicinity of lakes. M. A. B.

TRICHIACEAE

Lachnobolus globosus (Schw.) Rost. Frequent on rotten wood, C. S. H. D. S. J.

Arcyria incarnata Pers. On rotten wood, C. S. H. D. S. J.

† Revised following the terminology given in North American Slime Molds, New and Revised Edition. T. H. Macbride, Macmillan and Company, 1922.

BACILLARIOPHYTA (Diatoms)*

FRAGILAROIDEAE

- Diatoma vulgare* Bory. Common, Jarvis Pond, C. S. H. N. M. G.
Fragilaria virescens Ralfs. Common, Jarvis Pond, C. S. H. N. M. G.
Synedra radians Kuetz. Common, Jarvis Pond, C. S. H. N. M. G.

NAVICULOIDEAE

- Amphipleura* sp. N. M. G.
Navicula Grevillei Ag. On *Zostera*, C. S. H. N. M. G.
Neidium affine (Ehrenb.) Pfitzer. Common, Jarvis Pond, C. S. H. N. M. G.
Pleurosigma distortum W. Sm. On mud and pebbles, C. S. H. D. S. J.

CONJUGATAE**

MESOTAENIACEAE

- Bambusina Brebissonii* Kuetz. 2nd lake, C. S. H. L. N. J.
Closterium didymotocum Corda. 2nd lake, C. S. H. N. M. G.

DESMIDIACEAE

- Arthrodesmus convergens* Ehrenb. Common, Jarvis Pond, C. S. H. L. N. J.
Arthrodesmus fragilis Wolle. Common, Jarvis Pond, C. S. H. L. N. J.
Cosmarium everettense Wolle. Common, Jarvis Pond, C. S. H. L. N. J.
Cosmarium ornatum Ralfs. Common, Jarvis Pond, C. S. H. N. M. G.
Cosmarium ovale Ralfs. Common, Jarvis Pond, C. S. H. L. N. J.
Cosmarium tetraophthalmum (Kuetz.) Bréb. Common, Jarvis Pond, C. S. H. L. N. J.
Euastrum verrucosum (Ehrenb.) Ralfs. Common, Jarvis Pond, C. S. H. L. N. J.
Micrasterias radiata Hass. Common, Jarvis Pond, C. S. H. L. N. J.
Micrasterias laticeps Nordst. Common, Jarvis Pond, C. S. H. N. M. G.
Micrasterias muricata Bailey. Common, Jarvis Pond, C. S. H. L. N. J.
Netrium Digitus (Ehrenb.) Itzig. & Rothe. Common, Jarvis Pond, C. S. H. N. M. G.
Spondylosium tetragonum West. Common, Jarvis Pond, C. S. H. L. N. J.
Staurastrum gracile Ralfs. Jarvis Pond, C. S. H. L. N. J.
Staurastrum pentacladium Wolle. Jarvis Pond, C. S. H. L. N. J.
Staurastrum tohopekaligense Wolle. Jarvis Pond, C. S. H. L. N. J.
Staurastrum vestitum Ralfs. Jarvis Pond, C. S. H. L. N. J.

* Revised according to Van Huerck's Treatise on the Diatomaceae with some reference to The Diatomaceae of Philadelphia and Vicinity. C. S. Boyer, Philadelphia, 1916. J. B. Lippincott Company.

** Revised following principally the nomenclature given in British Desmidiaceae Vol. I-IV. W. West and G. S. West, Vol. V. Nellie Carter, London, 1904, 1905, 1908, 1912, and 1923. Published by the Ray Society.

ZYGNEMATACEAE

- Spirogyra majuscula* Kuetz. 2nd lake, C. S. H. L. N. J.
Spirogyra mirabilis (Hass.) Kuetz. 2nd lake, C. S. H. L. N. J.
Zygnema stellinum (Vauch.) Ag. 2nd lake, C. S. H. L. N. J.

CHLOROPHYCEAE*

CLADOPHORACEAE

- Rhizoclonium riparium* (Roth) Harvey. On stones, algal mats; on *Spartina*,
 C. S. H. H. H. Y.
Cladophora fracta (Dillw.) Kuetz. Shoals at inner end, Center Island. E. C. F.

CHAETOPHORACEAE

- Draparnaldia plumosa* (Vauch.) Ag. Fish Hatchery Pond. E. N. T.

COELASTRACEAE

- Scenedesmus obliquus* (Turp.) Kuetz. 2nd lake, C. S. H. N. M. G.
Scenedesmus quadricauda (Turp.) Bréb. 2nd lake, C. S. H. N. M. G.

OEDOGONIACEAE

- Oedogonium crassiusculum* var. *idioandrosporum* Wittr. & Nordst. Dying
 Pond, C. S. H. E. N. T.
Oedogonium grande Kuetz. Fish Hatchery Pond. E. N. T.
Oedogonium Pringsheimii Cram. On *Ceratophyllum*, 1st lake, C. S. H.
 D. S. J.
Oedogonium rufescens var. *exiguum* Wittr. Dying Pond, C. S. H. E. N. T.

PROTOCOCCACEAE

- Palmellococcus miniatus* (Leib.) Chodat. C. S. H. N. M. G.
Zoochlorella parasitica Brandt. On fresh water sponge in Dying Pond.
 E. N. T.

ULVACEAE

- Enteromorpha prolifera* (Fl. Dan.) J. Ag. Estuary, C. S. H. D. S. J.
Ilea fulvescens (Ag.) J. Ag. Estuary, C. S. H. N. M. G.
Monostroma crepidinum Farl. Estuary, C. S. H. D. S. J.

VALONIACEAE

- Dictyocystis Hitchcockii* (Wolle) Lag. Common, bottom 2nd lake, C. S. H.
 N. M. G.

VOLVOACEAE

- Volvox aureus* Ehr. Ponds, C. S. H. E. N. T.

* Revised according to "The Green Algae of N. America" F. S. Collins.
 Tufts College Studies (Scientific Series) Vol. 2, No. 3. Vol. 3, No. 2; Vol. 4,
 No. 7. Tufts College, Mass.

PHAEOPHYCEAE*

FUCACEAE

Fucus platycarpus Thuret. On stones, piles, docks, C. S. H. D. S. J.

RALFSIACEAE

Ralfsia clavata (Carm.) Farlow. Piles, wharves, inner harbor. D. S. J. and H. H. Y.

RHODOPHYCEAE

CERAMIACEAE

Ceramium rubrum var. *proliferum* Harvey. Eatons Point, L. I. N. M. G.

SQUAMARIACEAE

Petrocelis cruenta J. Ag. Inner harbor. Tidal Inlet. D. S. J. and H. H. Y.

(To be continued)

DARTMOUTH COLLEGE.

FURTHER NOTES ON WOODY PLANTS

W. W. ASHE

Vaccinium vacillans Missouriense, var. nov.—The size and habit of the type; twigs and stems green, red or reddish-brown, terete; branchlets soft pubescent, the pubescence persistent until the second year. Leaves dark green, thick, with entire, revolute or thickened margins; oblong or oblanceolate, 3–5 cm. long, 1–1.7 cm. wide, acute at both ends; soon glabrous above except on the veins, permanently soft pubescent beneath, the midrib often arcuate and the leaf oblique. Flowers unknown. Fruit often merely glaucescent or sometimes black, but usually like that of the type. The most distinct variety of this variable species and possibly if the flowers should show differences entitled to be regarded as a species.—Monteer, Mo. W. W. A.

Vaccinium virgatum Ozarkense, var. nov.—Branchlets green or reddish, angled, the first season finely pubescent. Leaves oblong 2.5–4.2 cm. long, 9–1.6 cm. wide, acute or acuminate at apex, acute at base; margin entire, sometimes finely ciliate, puberulent above on midrib, bright green on both sides, thin, reticulate-veined below, and more or less pubescent. Flowers small, 5–6 mm. long, short cylindrical, pink and red or usually

* This group and the Rhodophyceae were revised by Professor Ivy Lewis of the Marine Biological Laboratory, Woods Hole, Mass., and the University of Virginia. The thanks of the writer are due Dr. Lewis for valuable comments in connection.